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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/628,160	07/28/2003	Udayan Dasgupta	TI-35857	4349
23494 TEXAS INSTI	7590 06/25/2007 RUMENTS INCORPOR	ATED	EXAM	INER
P O BOX 6554	174, M/S 3999		JAMAL, AL	EXANDER
DALLAS, TX	/5265		ART UNIT	PAPER NUMBER
			2614	
			NOTIFICATION DATE	DELIVERY MODE
			06/25/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary The MAILING DATE of this communication appears on the cover sheet with the correspondence address AST URLES AST URLES AS	•	Applicant(s)	olication No.		
Askander Jamal 2614		DASGUPTA ET AL.	628,160	nman	Office Action Sum
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DA WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(s). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If No period for reply is aperified above, the maximum statutory period will apply and will expire IX (6) MONTHS from the mailing date of this communication. If No period for reply is aperified above, the maximum statutory period will apply and will expire IX (6) MONTHS from the mailing date of this communication. If No period for reply is aperified above, the maximum statutory period will apply and will expire IX (6) MONTHS from the mailing date of this communication. If No period for reply is application to reply will, by statute, cause the application to become ABANDONED (5s U.S.C. § 133). Status 1) Responsive to communication(s) filed on 28 July 2003. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merit closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are rejected. 7) Claim(s) are subjected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b objected to by the Examiner. 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)		Art Unit	miner	ninary	ome Action Sum
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1) Notice of References Cited (PTO-892) A) Interview Summary (PTO-413)		(PTO-413)	4) Interview Summany /	•	1) Notice of References Cited (PTO-892)
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3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:		Patent Application	5) Notice of Informal Pa	J/SB/08)	Paper No(s)/Mail Date
S. Patent and Trademark Office TOL-326 (Rev. 08-06) Office Action Summary Part of Paper No /Mail Date 200700					

Application/Control Number: 10/628,160

Art Unit: 2614

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3,5,7-10,12,14, rejected under 35 U.S.C. 102(e) as being anticipated by Belge et al. (US20060182169A1).

As per **claims 1,8**, Belge discloses a noise source identifier and estimator (Fig. 1, blocks 110,120 detect and block 150 estimates) that measure and classify DSL loop characteristics, including crosstalk power level in the frequency domain. (paragraphs 87,88, Fig. 7).

As per claims 2,9, rf sources of noise are considered (para. 88).

As per claim 3,10, the examiner reads any measured source as 'unknown' until; it is classified by the system.

As per **claims 5,12,** as per applicant's specification page 12, the equation of claim 5 is read as: the noise source PSD is equal to a shape function (basis function) of the noise PSD times a scaling function. Belge discloses an equation (para. 90) stating that the PSD is equal to 1/K (scaling function) times a Sum of an FFT (basis function).

As per claims 7,14, they are rejected as per the claim 1 rejection.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 4,6,11,13, are rejected under 35 U.S.C. 103(a) as being unpatentable over Belge et al. (US20060182169A1) as applied to claims 1,8.

As per claims 4,6,11,13, Belge discloses that noise measurements (identified noise sources) are used with predefined channel models in order to analyze the particular DSL loop (para. 70,71). Belge discloses that noise sources are identified by comparing them to known crosstalk spectral masks, such as DSI NEXT, HDSL NEXT, T1 NEXT, White noise (Gaussian) (para. 91). Belge discloses that the G.dmt and G.lite standards (from the ITU) may be use as part of the analysis process (para. 64), but does not specify that the predetermined modeling system (or spectral masks) are selected from either and American, or ETSI model and that the noise masks include ETSI noises.

It would have been obvious to one of ordinary skill in the art at the time of this application to utilize well known standards (American or European, which would include ETSI noise models) to obtain the predetermined channel models for the advantage of conforming with recognized standards when qualifying loops for data transmission.

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5. Claims 15-17,19,21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Belge et al. (US20060182169A1), and further in view of Goldstein et al. (6567465).

As per claim 15, Belge discloses a DSL modem with crosstalk detection as per the claim 1 rejection, but does not specify the line interface details of the DSL modems.

Goldstein discloses a DSL modem with a front end, transmitter/receiver (could be read as any part of blocks 30,40), and associated A/D and D/A converters 68,72 (Col 4 lines 15-35). It would have been obvious to one of ordinary skill in the art at the time of this application to implement the line interface circuitry taught by Golddstein for the purpose of interfacing with the transmission line.

As per claim 16, it is rejected as per the claim 2 rejection.

As per claim 17, it is rejected as per the claim 3 rejection.

As per claim 19, it is rejected as per the claim 5 rejection.

As per claim 21, Belge discloses that the DSI modem may be an ADSL modem (para. 41).

6. Claims 18,20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Belge et al. (US20060182169A1) in view of Goldstein et al. (6567465).as applied to claim 15.

As per claims 18,20, they are rejected as per the claim 4,6 rejections.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Jamal whose telephone number is 571-272-7498. The examiner can normally be reached on M-F 9AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis A Kuntz can be reached on 571-272-7499. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300 for regular communications and 571-273-8300 for After Final communications.

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Examiner Alexander Jamal

June 17, 2007